

Title (en)  
LIQUID DETERGENT COMPOSITION WITH ABRASIVE PARTICLES

Title (de)  
FLÜSSIGE REINIGUNGSMITTELZUSAMMENSETZUNG MIT SCHLEIFPARTIKELN

Title (fr)  
COMPOSITION DÉTERGENTE LIQUIDE AVEC DES PARTICULES ABRASIVES

Publication  
**EP 2719752 A1 20140416 (EN)**

Application  
**EP 12188500 A 20121015**

Priority  
EP 12188500 A 20121015

Abstract (en)  
A composition comprising abrasive particles derived from inorganic-based foam, wherein said abrasive particles are non-spherical having a form factor from 0.1 to 0.6 and a solidity from 0.3 to 0.9, and wherein said abrasive particles comprise one or more inorganic materials and have a MOHs hardness of from 1 to 4.

IPC 8 full level  
**C11D 17/00** (2006.01)

CPC (source: EP US)  
**A61K 8/0208** (2013.01 - EP); **A61K 8/046** (2013.01 - EP); **A61K 8/19** (2013.01 - EP US); **A61K 8/25** (2013.01 - EP);  
**A61Q 11/00** (2013.01 - EP US); **A61Q 19/10** (2013.01 - EP US); **C11D 3/14** (2013.01 - US); **C11D 17/0013** (2013.01 - EP US);  
**A61K 2800/28** (2013.01 - EP)

Citation (applicant)

- EP 0957156 A1 19991117 - PROCTER & GAMBLE [US]
- WO 03089561 A2 20031030 - PROCTER & GAMBLE [US]
- US 3812044 A 19740521 - CONNOR D, et al
- US 4704233 A 19871103 - HARTMAN FREDERICK A [US], et al
- MCCUTCHEON'S: "Emulsifiers and Detergents", MC PUBLISHING CO
- "Handbook of Detergent", M.DEKKER/CRC
- "Surfactants and Polymers in aqueous solution", WILEY
- "Enzymes in Detergency", CRC
- "Encyclopedia of Chemical Technology", vol. 1, pages: 18
- "CRC Handbook of Chemistry and Physics", 1992, THE RUBBER COMPANY
- "Synthesis of Inorganic Materials", WILEY
- "Handbook of Inorganic Compounds", CRC

Citation (search report)

- [A] EP 0226723 A2 19870701 - VORWERK CO INTERHOLDING [DE]
- [A] WO 2011051170 A1 20110505 - BASF SE [DE], et al
- [A] GB 1367622 A 19740918 - UNILEVER LTD
- [A] US 4961871 A 19901009 - MICHAEL DANIEL W [US]
- [A] WO 03040284 A1 20030515 - UNILEVER NV [NL], et al
- [A] GB 1454403 A 19761103 - STRICKMAN R L, et al
- [A] WO 2008006736 A1 20080117 - BASF AG [DE], et al

Cited by  
US2016000292A1; CN115820349A; US2016000291A1; US10106714B2; US11959009B2; US9676981B2; US9803119B2; US9783718B2; US10563106B2; US9765249B2; US10428255B2; US11453811B2; US9707529B2; US10286523B2; US11148254B2; US11154964B2; US10806692B2; US10865148B2; US11166905B2; US9688893B2; US10000676B2; US9604346B2; US9676982B2; US10711171B2; US11879087B2; US10280350B2; US11926019B2; US9717674B1; US11230653B2; US9771507B2; US10196551B2; US10597568B2; US11472989B2; US11926781B2; US9902045B2; US9914864B2; US9938440B2; US10351745B2; US10358589B2; US11608459B2; US11643582B2; US11926780B2; US9676980B2; US9771506B2; US10106715B2; US10364383B2; US10759024B2; US11091678B2; US11142673B2; US11649388B2; US11859120B2; US10563105B2; US11427740B2; US11549040B2; US11932802B2; US10179391B2; US10557067B2; US10668598B2; US11590632B2; US11718774B2; US11891559B2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2719752 A1 20140416; EP 2719752 B1 20160316**; ES 2577147 T3 20160713; JP 2016500719 A 20160114; JP 6174704 B2 20170802; MX 2015004586 A 20150721; US 2014105831 A1 20140417; US 9163201 B2 20151020; WO 2014062386 A1 20140424

DOCDB simple family (application)  
**EP 12188500 A 20121015**; ES 12188500 T 20121015; JP 2015535775 A 20131003; MX 2015004586 A 20131003; US 2013063171 W 20131003; US 201314051535 A 20131011